Aeronautics Educator Guide							
2006 Mathematics							
Program of Studies							
Kentucky Mathematic Grades K-3	S						
	State	Standards					
Activity/Lesson	State	MA.K-3.MA-P-					
Air Engines (12.16)	L/V	I	nace guestions to generate data				
Air Engines (12-16)	KY	DAP-S-ES1	pose questions to generate data				
Dotor Motor (60.75)	I/V	MA.K-3.MA-P-	nace guartians to generate data				
Rotor Motor (69-75)	KY	DAP-S-ES1	pose questions to generate data read, write, count and model whole numbers 0-				
Eliabt: Interdisciplinary			10,000, developing an understanding of place				
Flight: Interdisciplinary		MA.K-3.MA-P-	value for ones, tens, hundreds, thousands and				
Learning Activities (76-		I	ten thousands				
79)	KY	NPO-S-NS1					
Flight: Interdiscipliner			skip-count forwards and backwards by 2s, 5s,				
Flight: Interdisciplinary			10s and 100s, using manipulatives, mental math and written and electronic means to				
Learning Activities (76-		MA.K-3.MA-P-					
79)	KY	NPO-S-PNO2	communicate understanding				
Flight: Interdisciplinary							
Learning Activities (76-		MA.K-3.MA-P-	read, display, compare and interpret student-				
79)	KY	DAP-S-DR3	collected data				
Flight: Interdisciplinary			use tools (including technology when				
Learning Activities (76-		MA.K-3.MA-P-	appropriate) to organize and display student-				
79)	KY	DAP-S-ES3	collected data				
			the collection, organization, interpretation and				
Making Time Fly (80-		MA.K-3.MA-P-	display of data can be used to answer				
86)	KY	DAP-U-2	questions.				
Where is North? The							
Compass Can Tell Us		MA.K-3.MA-P-	inferences and predictions from data are used to				
(87-90)	KY	DAP-U-4	make critical and informed decisions.				
Where is North? The							
Compass Can Tell Us		MA.K-3.MA-P-					
(87-90)	KY	DAP-S-ES1	pose questions to generate data				
Let's Build a Table Top			visualization, spatial reasoning and geometric				
Airport (91-96)	KY	U-4	relationships model real-world situations.				
			describe, define, give examples of and use to				
			solve real-world and/or mathematical problems				
			both nonstandard and standard (U.S.				
			Customary, metric) units of measurement to				
Plan to Fly There (97-			include length, time, money, temperature				
106)	KY	S-SM2	(Fahrenheit and Celsius) and weight				
			describe, define, give examples of and use to				
			solve real-world and/or mathematical problems				
			both nonstandard and standard (U.S.				
We Can Fly, You and			Customary, metric) units of measurement to				
I: Interdisciplinary		MA.K-3.MA-P-M-	include length, time, money, temperature				
Learning (107-108)	KY	S-SM2	(Fahrenheit and Celsius) and weight				
Dunked Napkin (17-		MA.K-3.MA-P-					
22)	KY	DAP-S-ES1	pose questions to generate data				

Dunked Napkin ( 17-		MA.K-3.MA-P-	use data from student investigations to make
22)	KY	DAP-S-ES2	predictions or draw simple conclusions
Paper Bag Mask (23-	IX I		choose and use appropriate tools for specific
28)	KY	S-MPA4	measurement tasks
Paper Bag Mask (23-	IX I	MA.K-3.MA-P-	inferences and predictions from data are used to
, ,	KY	DAP-U-4	make critical and informed decisions.
28)	IX I	DAF-U-4	mare chilical and informed decisions.
			analyze and make inferences from data displays
			(drawings, tables/charts, tally tables,
Paper Bag Mask (23-		MA.K-3.MA-P-	pictographs, bar graphs, circle graphs, line plots,
28)	KY	DAP-S-DR6	two-circle Venn diagrams)
Paper Bag Mask (23-		MA.K-3.MA-P-	and an order term and gramme,
28)	KY	DAP-S-ES1	pose questions to generate data
			estimate weight, length, perimeter, area, angle
Wind in Your Socks)		MA.K-3.MA-P-M-	and time using appropriate units of
(29-35)	KY	S-MPA6	measurement
Wind in Your Socks)		MA.K-3.MA-P-	
(29-35)	KY	DAP-S-ES1	pose questions to generate data
,			
		MA.K-3.MA-P-	
Bag Balloons (40-43)	KY	DAP-S-ES1	pose questions to generate data
		MA.K-3.MA-P-	
Sled Kite (44-51)	KY	DAP-S-ES1	pose questions to generate data
		MA.K-3.MA-P-	inferences and predictions from data are used to
Right Flight (52-59)	KY	DAP-U-4	make critical and informed decisions.
		MA.K-3.MA-P-	use data from student investigations to make
Right Flight (52-59)	KY	DAP-S-ES2	predictions or draw simple conclusions
			use standard units of measurement to identify,
			describe and compare measurable attributes of
			objects (e.g., length, weight, volume) and make
Delta Wing Glider (60-		MA.K-3.MA-P-M-	estimates using appropriate units of
68)	KY	S-MPA3	measurement
Delta Wing Glider (60-		MA.K-3.MA-P-	inferences and predictions from data are used to
68)	KY	DAP-U-4	make critical and informed decisions.
Delta Wing Glider (60-		MA.K-3.MA-P-	use data from student investigations to make
68)	KY	DAP-S-ES2	predictions or draw simple conclusions
	Aeı	onautics Educate	
		2006 Mathemat	
Manadana Bali di		Program of Stud	dies
Kentucky Mathematic	S T		
Grade 4	04-4-	Otomol	
Activity/Lesson	State	Standards	
			pose questions and choose an appropriate
Ain Engines (40.40)			method to collect, organize and display student-
Air Engines (12-16)	KY	S-DR3	collected data to answer the questions
Air Engines (40.40)			pose questions and collect, organize, interpret
Air Engines (12-16)	KY	S-ES1	and display data to answer them
			pose questions and choose an appropriate
Dete: Mete: (00.75)			method to collect, organize and display student-
Rotor Motor (69-75)	KY	S-DR3	collected data to answer the questions
Deter Meter (00.75)	107		pose questions and collect, organize, interpret
Rotor Motor (69-75)	KY	S-ES1	and display data to answer them

Flight: Interdisciplinary		MA 4340 4	skip-count forwards and backwards by 2s, 3s, 4s, 5s, 10s, 20s, 25s, 50s, 100s, 1,000s and 10,000s and use manipulatives, mental math
Learning Activities (76-		MA.4.MA-4-	and written and electronic means to
79)	KY	NPO-S-PNO2	communicate understanding
Flight: Interdisciplinary			
Learning Activities (76-		MA.4.MA-4-DAP	pose questions and collect, organize, interpret
79)	KY	S-ES1	and display data to answer them
			the collection, organization, interpretation and
Making Time Fly (80-		MA.4.MA-4-DAP	display of data can be used to answer
86)	KY	U-2	questions.
			pose questions and choose an appropriate
Making Time Fly (80-			method to collect, organize and display student-
86)	KY	S-DR3	collected data to answer the questions
Making Time Fly (80-			pose questions and collect, organize, interpret
86)	KY	S-ES1	and display data to answer them
Where is North? The			pose questions and choose an appropriate
Compass Can Tell Us			method to collect, organize and display student-
(87-90)	KY	S-DR3	collected data to answer the questions
Where is North? The		NAA A NAA A DAD	
Compass Can Tell Us	101	I	pose questions and collect, organize, interpret
(87-90)	KY	S-ES1	and display data to answer them
Let's Build a Table Top	107		visualization, spatial reasoning and geometric
Airport (91-96)	KY	5	relationships model real-world situations.
Plan to Fly There (97-	I/V	MA.4.MA-4-M-S- MPA2	
Plan to Fly There (97-	KY	MA.4.MA-4-M-S-	relate time to days, weeks, months and years
106)	KY	MPA3	add and subtract time to solve problems
100)	IXI	IVII AO	describe, define, give examples of and use to
			solve real-world and/or mathematical problems
			both nonstandard and standard (U.S.
We Can Fly, You and			Customary, metric) units of measurement to
I: Interdisciplinary		MA.4.MA-4-M-S-	include length, weight, time, money and
Learning (107-108)	KY	SM2	temperature (°F and °C)
We Can Fly, You and			the collection, organization, interpretation and
I: Interdisciplinary		MA.4.MA-4-DAP	display of data can be used to answer
Learning (107-108)	KY	U-2	questions.
			pose questions and choose an appropriate
		MA.4.MA-4-DAP	method to collect, organize and display student-
Sled Kite (44-51)	KY	S-DR3	collected data to answer the questions
		I	pose questions and collect, organize, interpret
Sled Kite (44-51)	KY	S-ES1	and display data to answer them
			use measurements to describe and compare
			attributes of objects, including length, width,
			height, money (cost), temperature and weight,
Right Flight (52-59)	KY	MPA8	and sort and compare objects using attributes
			pose questions and collect, organize, interpret
Right Flight (52-59)	KY	S-ES1	and display data to answer them
			use measurements to describe and compare
D 11 M/ 011 / 22			attributes of objects, including length, width,
Delta Wing Glider (60-	101		height, money (cost), temperature and weight,
68)	KY	MPA8	and sort and compare objects using attributes

Delta Wing Glider (60-		MA.4.MA-4-DAP	inferences and predictions from data are used to
68)	KY	U-4	make critical and informed decisions.
Delta Wing Glider (60-		MA.4.MA-4-DAP	pose questions and collect, organize, interpret
68)	KY	S-ES1	and display data to answer them